

Customer		Date														
Project Title		Code No.														
Project Description																
CPU Working Voltage (VDD)	<input type="checkbox"/> 2.7V ~ 3.6V	I/O Voltage	<input type="checkbox"/> 2.7V ~ 3.6V													
CPU Operation Frequency	Clock control register: _____ (Value written to 0x7007), CPU operation: _____ MHz		Crystal (32768Hz) <input type="checkbox"/> Check													
LCD Configuration	#COM: _____ #SEG: _____ Bias: _____ Duty: _____ V _{LCD} : _____ V Mode: <input type="checkbox"/> Gray Level <input type="checkbox"/> Mono (Black & White) Bit-per-pixel: <input type="checkbox"/> 1 <input type="checkbox"/> 4 LCD Buffer can only locate in DPRAM (0x4000~0x477F) <input type="checkbox"/> Check LCD Setup register: _____ (Value written to 0x7180)															
LCD Driver Interface	Frame Rate: _____ Hz List SEG Control Register: 0x7031 _____ 0x7032 _____ 0x7033 _____ 0x7034 _____ LCD Common: Can only use GPL168001A built-in COM Driver (up to 64 COM) <input type="checkbox"/> Check LCD Segment: <input type="checkbox"/> Single Chip Solution (GPL168001A) <input type="checkbox"/> Multi-Chip Solution If Multi-Chip Solution: a. Make sure to turn off GPL168001A built-in VLCD charge pump. <input type="checkbox"/> Check b. Can not use GPL168001A built-in SEG69 ~ SEG73. <input type="checkbox"/> Check LCD Driver Components: <input type="checkbox"/> GPLD Series Body no: _____ <input type="checkbox"/> SPLC Series Body no: _____ <input type="checkbox"/> Others Body no: _____															
Release Code File (fill "0xFFFF" for unused area)																
Binary filename (*.tsk):		Binary file check-sum:														
Binary file size is 1088 Kbytes <input type="checkbox"/> Check		(run sunb.exe result)														
		User ROM check sum:														
		(Reported by G+IDE tool)														
SRAM size: 4K words (0x00000~0x0FFF)		<input type="checkbox"/> Check														
DPRAM size: 1920 Words (0x4000~0x477F)		<input type="checkbox"/> Check														
Page0 ROM size: 31K words (0x08000~0x0FBFF)		<input type="checkbox"/> Check														
Non-Page0 ROM size: 480K words (0x10000~0x87FFF)		<input type="checkbox"/> Check														
GENERALPLUS test program: 1K words (0xFC00~0xFFEF)		<input type="checkbox"/> Check (Reserved Area)														
Input / Output																
IOA Port																
	b15	b14	b13	b12	b11	b10	b9	b8	b7	b6	b5	b4	b3	b2	b1	b0
Input																
Output																
Wakeup																
Special Function		TimerA CCP	EXTB											COMMON [63:61]		
Used																

IOB Port																
	b15	b14	b13	b12	b11	b10	b9	b8	b7	b6	b5	b4	b3	b2	b1	b0
Input																
Output																
Wakeup																
Special Function					SPI CLK, DO, DI									Analog Inputs		
Used																

IOC Port																
	b15	b14	b13	b12	b11	b10	b9	b8	b7	b6	b5	b4	b3	b2	b1	b0
Input																
Output																
Wakeup																
Special Function	MRE	MWE			URX IRRX	UTX IRTX	CS1	DISP ON	Dedicated I/O					SCK SDA		
Used																

Hardware / Software	
LVR (Low Voltage Reset)	<input type="checkbox"/> Disable <input type="checkbox"/> Enable: (<input type="checkbox"/> 2.0V)
LVD (Low Voltage Detector)	<input type="checkbox"/> Disable <input type="checkbox"/> Enable: (<input type="checkbox"/> 2.2V <input type="checkbox"/> 2.4V <input type="checkbox"/> 2.6V <input type="checkbox"/> 2.8V)
Internal Memory Configuration	In emulation mode setup _____ (Value written to 0x704C) Released mask code setup _____ (Value written to 0x704C) This value must be greater than 0x0001 and must be verified on EMU system.
External Memory (CS0) Configuration	<input type="checkbox"/> Disable <input type="checkbox"/> Enable: Start Address: _____ End Address: _____ Type: <input type="checkbox"/> SRAM <input type="checkbox"/> ROM <input type="checkbox"/> FLASH <input type="checkbox"/> Others Size: _____ Access Time: _____ CS0 control register: _____ (Value written to 0x7020)
External Memory (CS1) Configuration	<input type="checkbox"/> Disable <input type="checkbox"/> Enable: Start Address: _____ End Address: _____ Type: <input type="checkbox"/> SRAM <input type="checkbox"/> ROM <input type="checkbox"/> FLASH <input type="checkbox"/> Others Size: _____ Access Time: _____ CS1 control register: _____ (Value written to 0x7021) CS1 timing control register: _____ (Value written to 0x7024)
A/D Interface	<input type="checkbox"/> Disable <input type="checkbox"/> Enable: If Enable, please check following Module Used: <input type="checkbox"/> Microphone if used, Auto Gain Control: <input type="checkbox"/> Enable <input type="checkbox"/> Disable <input type="checkbox"/> Analog Input(s) If used, A/D Line_In inputs (CHC,CHD shared with IOB[1:0]) voltage range _____ V ~ _____ V

UART	<input type="checkbox"/> Disable <input type="checkbox"/> Enable: If Enable, Maximum Baud Rate = _____	
IrDA	<input type="checkbox"/> Disable <input type="checkbox"/> Enable: If Enable, Maximum Baud Rate = _____	
SEG[0:7] Used as key scan output	<input type="checkbox"/> Yes <input type="checkbox"/> No	If yes, please check LCD brightness on Emu Board <input type="checkbox"/> Check
SEG[8:15] Used as key scan output	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Watchdog enable (Software Write-once Option)		<input type="checkbox"/> Yes <input type="checkbox"/> No
If watchdog is enabled, please check the following:		
Watchdog port (\$700BH) must be cleared by writing 0xAxx5 within some designated duration.		<input type="checkbox"/> Check
All functions must be verified on the EMU board or EMU chip system.		<input type="checkbox"/> Check
Mask Code Option		
EMUSEL0 code option as:	<input type="checkbox"/> 1 <input type="checkbox"/> 0	
EMUSEL1 code option as:	<input type="checkbox"/> 1 <input type="checkbox"/> 0	
IROMEN code option as:	<input type="checkbox"/> 1 <input type="checkbox"/> 0	
ADBUSEN code option as:	<input type="checkbox"/> 1 <input type="checkbox"/> 0	
Protect code option as:	<input type="checkbox"/> 1 <input type="checkbox"/> 0	
General Programming Checklist		
The general programming checklist intends to provide some general characteristics about GENERALPLUS devices. It is the customer's responsibility to check all the information in the list. No responsibility is assumed by GENERALPLUS for any non-checked box even this confirmation sheet has been approved by GENERALPLUS. Make sure the following conditions are met and verified.		
All used SRAM must be initialized after power on (Strongly recommended).		<input type="checkbox"/> Check
Make sure the used SRAM variables are not over stack reserved area.		<input type="checkbox"/> Check
Make sure the Interrupt section is located in the page0 or is declared as .TEXT section (\$08000-\$0FBFF).		<input type="checkbox"/> Check
(A) Make sure no current leakage in I/O or speaker amplifier during sleeping.		<input type="checkbox"/> Check
(B) Make sure all I/Os are not floating during sleeping.		<input type="checkbox"/> Check
To avoid abnormal wake up in sleep mode, users should disable the interrupt of all sources with 32768Hz clock.		<input type="checkbox"/> Check
This code has been running stand-alone.		<input type="checkbox"/> Check
Non-used I/O ports must be masked off (for input process). Example, if IOA[0:7] are input: R1 = [P_IOA_Data]; ; Read I/O port A Data R1 &= 0x00FF; ; Mask higher byte CMP R1,0x0011; ; Lower byte is available for compare operation		<input type="checkbox"/> Check
Document Version		
To make sure the correct version of document is used, please fill out the followings:		
(A). GPL168001A Programming Guide Version _____		
(B). μ 'nSP™ IDE User Manual Title and Version _____		
(C). Other documents (if any) _____		

Development Tool / Board Version	
To make sure the correct version of hardware is used, please fill out the followings: (A).Emulation Board Version _____ (B).Emulation Chip Version _____ (C).Piggyback Version(if used) _____ (D).Others (if any) _____	
To make sure the correct version of software is used, please fill out the following: (A). μ 'nSP™ IDE Version _____ (B).SACM Library Version(if used) _____ (C).Others (if any) _____	
Speech Library Usage	
Generalplus speech libraries is applied in this code <input type="checkbox"/>Yes <input type="checkbox"/>No If yes, which kind speech have used <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"><input type="checkbox"/> A1600</div> <div style="width: 50%;"><input type="checkbox"/> A2000</div> <div style="width: 50%;"><input type="checkbox"/> A3200</div> <div style="width: 50%;"><input type="checkbox"/> A3200-2 channel</div> <div style="width: 50%;"><input type="checkbox"/> A2000 Encode</div> <div style="width: 50%;"><input type="checkbox"/> MS01</div> <div style="width: 50%;"><input type="checkbox"/> MS02</div> <div style="width: 50%;"><input type="checkbox"/> S200</div> <div style="width: 50%;"><input type="checkbox"/> S240</div> <div style="width: 50%;"><input type="checkbox"/> S480/720</div> <div style="width: 50%;"><input type="checkbox"/> S530</div> <div style="width: 50%;"><input type="checkbox"/> S600</div> </div>	
Does speech algorithm allocate in page 0 <input type="checkbox"/>Yes <input type="checkbox"/>No	
For Third Party Application	
Cyberon voice recognition solution is applied in this code <input type="checkbox"/>Yes <input type="checkbox"/>No If yes, please fill out the followings: (A). Types of solutions: <input type="checkbox"/> SI only <input type="checkbox"/> SD only <input type="checkbox"/> SID(both SI & SD) <input type="checkbox"/> SV (B). VStar Modeling Toolkit IDE Version _____ (C). VStar Library Version: BSRV_____.lib (D). VStar-SDK Programming Guide Version _____ (E). Others (if any) _____	
Customer Note	GENERALPLUS Note
Name (print): _____ Tel: _____	Name (print): _____ Tel: _____
Signature: _____	Signature: _____

Note: Please send/fax this form to GENERALPLUS. GENERALPLUS will return it back with signature.